

ABSTRACT:

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A self-expanding and self-undercutting guard rail bolt includes a dowel having a guard rail fastening end and a ring. The fastening end is configured to be driven in rotation, and the ring is configured to rigidly connect to a first screwing end of the dowel by an incipient fracture portion. The self-expanding and self-undercutting guard rail bolt further includes a counter-dowel screwed to the dowel by a second screwing end. The counter-dowel includes an expansion cone, and an anti-rotation head having at least one edge which projects beyond a periphery of the dowel to prevent rotation of the counter-dowel about an axis of the guard rail bolt.